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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/802,584

03/08/2001

Shekhar Y. Borkar

10559/412001 / P10349

7790

20985

7590

10/24/2002

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EXAMINER

COX, CASSANDRA F

ART UNIT

PAPER NUMBER

2816

DATE MAILED: 10/24/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application N .

09/802,584

Applicant(s)

BORKAR ET AL.

Examiner

Cassandra Cox

Art Unit

2816

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 September 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,5,6,9,12,14,15,17 and 20 is/are rejected.
- 7) ☒ Claim(s) 2-4,7,8,10,11,13,16,18 and 19 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05/21/001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 5-6, 9, 12, 14-15, 17, and 19-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Kondoh et al. (U.S. Patent No. 5,883,534).

In reference to claim 1, Kondoh discloses in Figure 25, a device comprising a delay lock loop circuit (15, 16, 17, 11) responsive to an input signal (IN) to delay the input signal by a first period and to generate an analog control signal (Vin) having an amplitude (this is seen to be an inherent part of any signal); and a delay circuit (12) coupled to the delay lock loop circuit (15, 16, 17, 11) and responsive to the input signal (IN), the delay circuit (12) being responsive to the analog control signal (Vin) from the delay lock loop circuit (15, 16, 17, 11) to delay the input signal (IN) by a second period as a function of the analog control signal amplitude. The same applies to claims 9, 14 and 17 wherein the second input signal is seen to be the output of the first delay circuit (11, see Figure 21).

In reference to claim 5, Kondoh discloses in Figure 25, that the delay lock loop circuit (15, 16, 17, 11) further comprises at least one delay cell (25, see Figure 5); and a phase detector (15) responsive to the input signal (IN) and responsive to an output

signal (OUT_A) from the at least one delay cell (25) to produce a control signal (Vin).

The same applies to claims 6, 12, 15, and 20.

Allowable Subject Matter

3. Claims 2-4, 7-8, 10-11, 13, 16, 18-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The following is a statement of reasons for the indication of allowable subject matter: Claims 2-4 and 10 would be allowable because the closest prior art of record fails to disclose a circuit as shown in Figure 3 wherein the input signal (13, 14) comprises complimentary clock signals in combination with the rest of the limitations of the base claim and any intervening claims. Claims 7-8, 11, 13, 16, and 18 would be allowable because the closest prior art of record fails to disclose a circuit as shown in Figure 2 further comprising a latch circuit (20) having a first input to receive an input data signal and a second input to receive one of an output from the delay circuit (17) and an output from the delay lock loop circuit (15) in combination with the rest of the limitations of the base claims and any intervening claims. Claim 19 would be allowable because the closest prior art of record fails to disclose a circuit as shown in Figure 3 wherein the first period and the second period are substantially the same in combination with the rest of the limitations of the base claim and any intervening claims.

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cassandra Cox whose telephone number is 703-306-


Art Unit: 2816

5735. The examiner can normally be reached on Monday-Thursday from 7:00 AM to 4:30 PM and on alternate Fridays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (703)-308-4876. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

CC

October 20, 2002


Kenneth B. Wells
Primary Examiner